

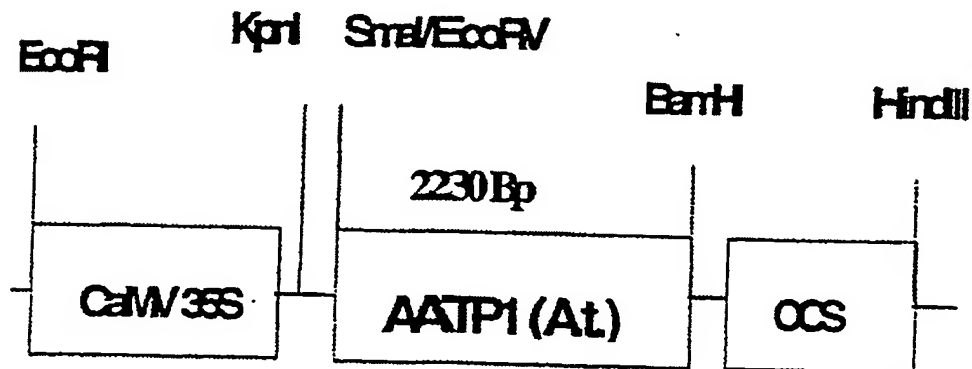
Fig. 1: *Arabidopsis thaliana* cDNA corresponding to the coding region of the chloroplast ATP/ADP translocator 1 (EMBL Accession Number Z49227)

atggaagctgtgattcaaaccagagggcttctctttacccaccaaaccatcgagtgagaagcca  
acttcagccttcccatggctaaagcagagacttttcgccggaagccaagaaatctacatgggtgtct  
ctatccttaacgggcacaagaaattcaaaccttgagccaaccctgcatgggatttcgatttccaca  
aagagagaagcaccgagttcatatgcaaggcggagggcgcggtgctggcgacggagctgtcttcg  
gcgaagcgattccgcagctgtttagcctcgcggaagatttccggtgtggaggtgcaaccttgaaaaa  
gattatccctttaggattgatgttctttgtattctttcaattacacaattctgaggatacaaaggatgtcttg  
gtggtgacggcgaaaggaagtctgctgagattataccttctgaagactgggtgaatcttctatggc  
cattgggttatgtcctctactactaaactctccaatgttctctccaagaaggctctgtttacactgttattgtc  
ccttcatcatctacttgggggcttgggttcgtcatgtaccctctcagcaactatattcacccggaagctct  
cgagataagctccttacaaccctcggccaagattcatgggtcctattgcaatatgcggatttggagtt  
tctgtttgtttatgttatggctgagcttggggtagtggtggtgtcagttcttctggggcttggtaatcag  
atcacaactgtggatgaagccaagaaattctatccttgttcggcattggagccaatgttgcaactgatttc  
tcaggaagaaccgtgaaatacttcttaacttgagaaagaatcttggtcctggagttgacggcagtttcg  
ttgaaagccatgatgagcattgtgtggggaatgggactcgcatattgtctctctattggtgggtcgaataga  
tatgttctcttccaacccttagcaagaacaagaaggagaaaccgaagatgggaacgatggaaag  
cttgaagtcttggatcatcaccatacattagagatcttgctactttagtgtggcatacggattatgatca  
atctgtggaagtcacatggaaatcaaagcttaaagctcagttccctagcccgaatgagtactcagcatt  
tatgggagcattctcaacctgcacgggtgttgcaacattcacaatgatgttctcagccaatacgtattca  
ataagtatggttggggagtagctgcaaagatcaccccaactgttctgctattgactggtgttgcttctct  
ctctaattattgttgggggccatttcgcaccacttgttgccaagcttggatgacaccgctacttgcagctgt  
gtatgtcgggtgcccttcagaatatcttcagcaagagtgccaagtacagctgttcgaccttgcaaagaa  
atggcctatatcccatggatgaggacaccaagggttaaaggcaaagctgcgattgacgtggtgtgcaa  
ccattaggaaaaatcagggggagctttaatacagcagttcatgatcttatccttggatcactagcgaatt  
caacgccgtatctaggaatgatcttgttggtattgtcactgcgtggttagctgcagctaagtcgctggag  
ggacagttcaacagcttgcgtctgaagaagagcttgagaaggaaatggagagagcttcatcggtga

Fig. 2: *Solanum tuberosum* cDNA corresponding to the coding region of the chloroplast ATP/ADP translocator 1 (EMBL Accession Number Y10821)

atggaagggtgtttacaacaagaggggtcttcttgccttctaaacccaaaatcaaggcgttttaccat  
tgctcaaggggtctaaggaacagattcaattcttaagtagttaagcctaatacctcttaatggggtt  
cttatcttcaaatgggttcaaaaagttcaaggcgttgacacaaagcctcagttgttggccaaaagaag  
agggttttccaatatgcaaagctgaggctgctgctgctgctggtgcagctgatggacagccacttttgtt  
gaaaaggagcaacctaagttatggggattgaactgtgaccttaagaaaattataccacttggggcg  
atgttctttgtattctgttaattatacaatccttagggatactaaaggatgtgttggtgtaacagctaaaggg  
tccagtgtgagattatcccttcttgaaaacttgggtgaatttgctatggctattggattcatgctttgtac  
acaaagttggctaagtgtgtgtcaaaggaggtctttttatactgttatacttctttattgcatctttggggc  
gttgggtttgtttgtatcctcttagcaattactttcacccctacagcttttgcgtataagcttctcaatacccttg  
tccaagatttcttgaccaattgctattctgagatctggagtttctgctgttctatgtcatggctgagctttg  
gggaagtgtgtgtgttcagtactctttggggatttgctaatacagatcacgactgtcatgaggctaaga  
gattctatcctttgttggacttggagcgaatgttgctcttatttctctggtcgacagtgaaagtactttctag  
cttgagaagctcttaggtcctggagttgatgttgggctatctccctgaaaggaatgatgagtattgtgt  
gatgatgggtggggcaatctgtttctttactgtgtgggtgaatagaaatgtgtctctccaactcgtagcaa  
gaagaagaaggtaaaacctaacaatgaccacaatggagagcttgaagttcttggctcttcaaaatata  
cagggatcttggcacattggtttagcatatggcattagatcaacctgttgaagttacatggaagtcaa  
agctcaaagctcagttccaagcccaatgaatactcctcattcatgggtgacttctcaactgctactgg  
aatagcaactttcacaatgatgttgttaagtcgaatggatttgcacaagtatgggtggggagcagcagcc  
aagataacacctacagtcttgccttaccggagtgtgttcttctccctgctttgttggggcaccttagc  
acctactcttgcgaagtttgaatgactccttcttagcagctgtctatgtgggtgcaatgcagaacattt  
agtaagagtgc aaagtatagtttgttgacctgcaaagaaatggcctacattcctttggatgaggaca  
ccaagggttaaaggggaaggcagcaatcgatgtgtctgcaatccactgggaaagtctggaggagctttg  
atacaacagttcatgattttgacttttgggtcaccttgccagctcgacacctaccttggcgggtgtgctctagt  
aattgttcttgcattgttgggagcagccaagtcttggatggacagttcactcaattacgccaagaagaa  
gatcttgagaaggaaatggagagagcatcgttgaagatccctgtcgtgtctcaaatgaaaatggaa  
atggtcctctcaagtgagtcactaaatcccgtggaggtgactctaccaacgcttcatcggaacc  
ctctccccaaggagcctgtaa

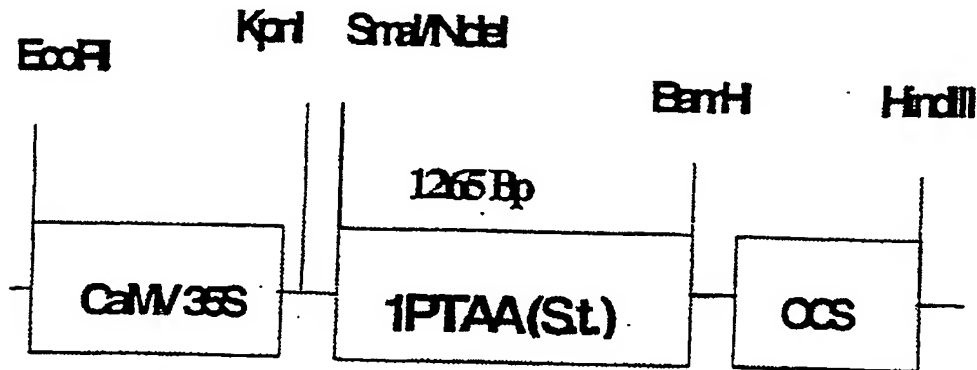
Fig. 3: Plant transformation vector pBIN-AR-AATP1 for expressing the ATP/ADP translocator in sense orientation



CaMV 35S: cauliflower mosaic virus 35S promoter  
 AATP1 (A.t.): EcoRV/BamHI fragment of the Arabidopsis thaliana ATP/ADP translocator 1 in sense orientation  
 OCS: polyadenylation signal of the Agrobacterium tumefaciens octopine synthase gene

Those restriction sites which cut the vector only once are also shown.

Fig. 4: Plant transformation vector pBIN-AR-AATP1-AS for expressing the ATP/ADP translocator in antisense orientation



CaMV 35S: cauliflower mosaic virus 35S promoter  
 1PTAA (S.t.): BamHI/NdeI fragment of the Solanum tuberosum ATP/ADP translocator gene in antisense orientation  
 OCS: polyadenylation signal of the Agrobacterium tumefaciens octopine synthase gene

Those restriction sites which cut the vector only once are also shown.